ATENT COOPERATION TREADING 10/52428

REC'D 23 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification	on of Transmittal of International	
BUR920020118			Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/mor	th/year)	Priority date (day/month/year)	
PCT/US02/41180	20 December 2002 (20.12.2002)			
International Patent Classification (IPC)	or national classification and IPC			
IPC(7): G01B 11/14 and US Cl.: 356/62	5			
Applicant	•			
INTERNATIONAL BUSINESS MACH	INES CORPORATION			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of	a total of <u>3</u> sheets, including	this cover she	et.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of sheets.			
3. This report contains indica	tions relating to the following i	tems:		
I 🔀 Basis of the repo	I Basis of the report			
II Priority				
III Non-establishme	ent of report with regard to nove	elty, inventive	step and industrial applicability	
IV Lack of unity of	invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documen	nts cited			
VII Certain defects i	n the international application			
VIII Certain observat				
_	^^			
Date of submission of the demand	Date	of completion	of this report	
		Date of completion of this report		
14 July 2004 (14.07.2004)		30 September 2004 (30.09.2004)		
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/US	Author	rized officer	DEBORAH A. THOMAS	
Commissioner for Patents P.O. Box 1450	Zandr	a V. Smith	PARALEGAL SPECIALIST	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Teleph	one No. (703)	305-0530	
orm PCT/IPEA/409 (cover sheet)(July 1998)				

Į [©]	
INTERNATIONAL PREL	ARY EXAMINATION REPORT

	<u> </u>
Interná	application No.
PCT/US	02/41180

I.	Basi	is of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-22 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of .
	X	the claims:
	L	pages 23-31 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand pages NONE , filed with the letter of .
	\square	the drawings:
	K Z	pages 1-10 , as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
İ	Ш	the sequence listing part of the description:
		pages NONE , as originally filed pages NONE , filed with the demand
		pages NONE, filed with the demand pages NONE, filed with the letter of
2.	With	h regard to the language, all the elements marked above were available or furnished to this Authority in the
	langu	uage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
!		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
•	Щ	filed together with the international application in computer readable form.
	Ц	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
inis	Replac repor	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Interna PCT/Us	application No.	

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims	1-28	YES	
		NONE	NO	
Inventive Step (IS)	Claims		YES	
	Claims	NONE	NO	
Industrial Applicability (IA)	Claims	1-28	YES	
moustain repricating (11)		NONE	NO	
of a plurality of structures using the MSUT to produce second data sets and determining total measurement uncresidual error, repeating the steps to optimize the MSU measurement uncertainty Claims 1-28 meet the criteria set out in PCT Article 33 can be made or used in industry. NEW CITATIONS	certainty for T by determined the (4), and the	r the MSUT by removing the RMS uncertainty fining optimal measurement parameters based or	rom the net n a minimal total	



10 FEB 2005

10/524783

International application No. INTERNATIONAL SEARCH REPORT PCT/US02/41180 CLASSIFICATION OF SUBJECT MATTER IPC(7) G01B 11/14 US CL 356/625 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet DOCUMENTS CONSIDERED TO BE RELEVANT C. Citation of document, with indication, where appropriate, of the relevant passages Category * Relevant to claim No. US 6,055,045 A (WEILL et al.) 22 April 2000, 22-04-2000, see entire document. 1 - 28A US 5,835,227 A (GRODNENSKY et al.) 10 November 1998, 10-11-1998, see entire 1-28 document. Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance document of particular relevance; the claimed invention cannot be "X" "E" earlier application or patent published on or after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination **"O"** document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than the 48. document member of the same patent family priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 11 April 2003 (11.04.2003) Name and mailing address of the ISA/US Authorized officer Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

Telephone No. (703) 305-0530

Form PCT/ISA/210 (second sheet) (July 1998)

Facsimile No. (703)305-3230